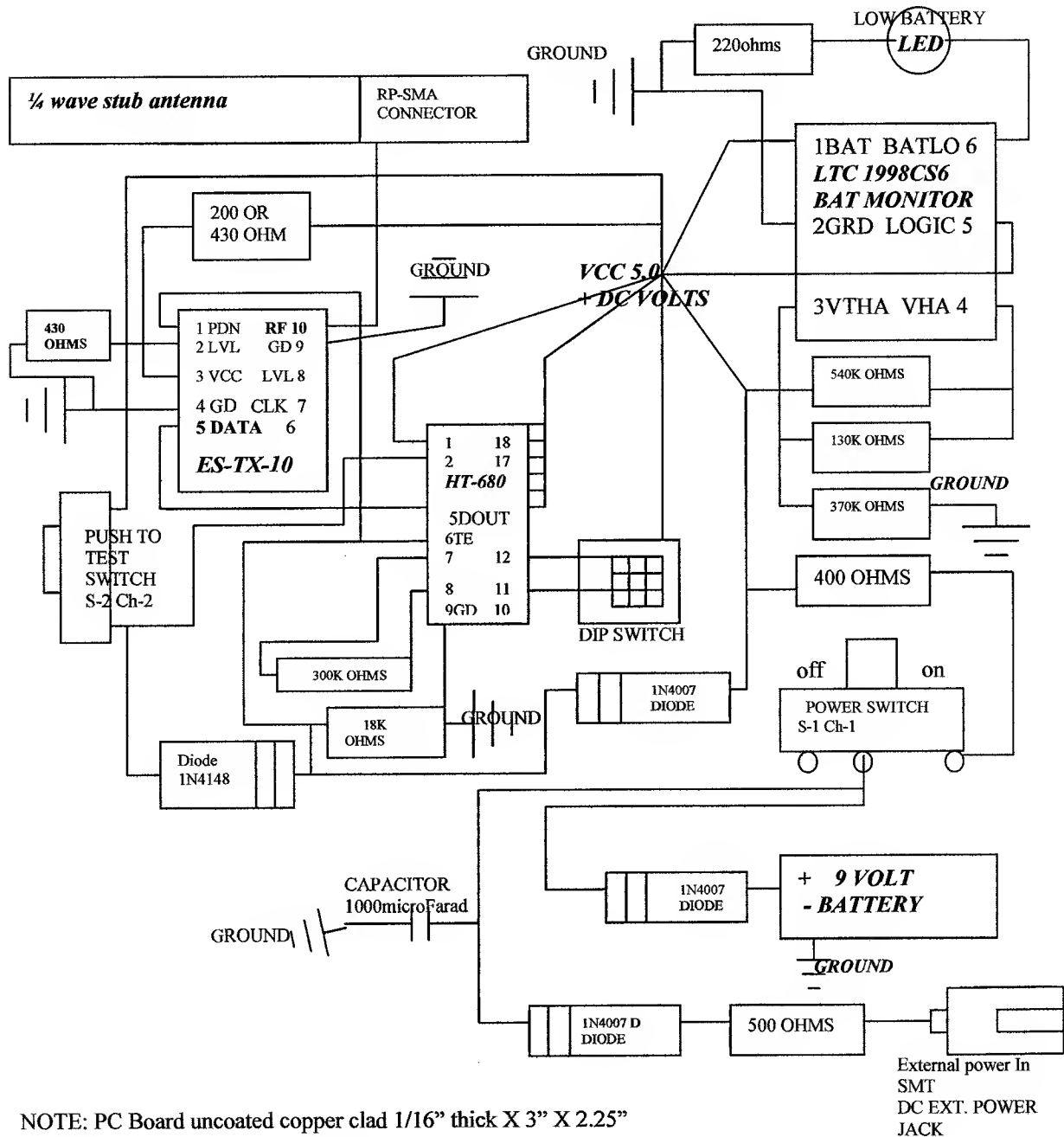


# Infant Safety Separation Monitor, By Ronald R. Lawson

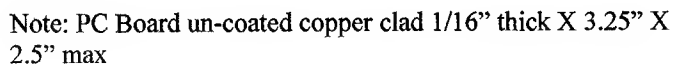
## Transmitter Circuit Diagram

Figure I of IV



NOTE: PC Board uncoated copper clad 1/16" thick X 3" X 2.25"

**Figure II of IV**



**Note: PC Board un-coated copper clad 1/16" thick X 3.25" X 2.5" max**

Infant Safety Separation Monitor, By Ronald R. Lawson  
PARTS LIST AND VALUES  
Figure III of IV

PART	QTY	VALUE	TOLERANCE	PART NUMBER
BUZZER	1	70Db @ 12VDC	3-16VDC	102-1115-ND or 102-1200-1-ND (4-7V) w/ DRIVE CIRCUIT
LED	3	RED 2 V, 40mA	N/A	160-1078-ND OR LTL-16KE
DIP SWITCH	2	SWITCH	N/A	CKN 3002-ND OR ITT IND BD03
DIODE	4	1A MAX AVG.	N/A	1N4007GICT-ND
TRANSISTORS W/ BUILT IN RESISTORS	2 (S)	1k/10k	MIN 30Hfe 50volt	UNR221900LCT-ND
TRANSISTORS W/ BUILT IN RESISTORS	2 (S)	2.2k/10k	MIN 30Hfe 50volt	UNR222400LCT-ND
TRANSISTORS W/ BUILT IN RESISTORS	2 (S)	4.7k/4.7k	MIN 30Hfe 50volt	UNR222200LCT-ND
TRANSISTORS W/ BUILT IN RESISTORS	2 (S)	4.7k/10k	MIN 30Hfe 50volt	UNR221F00LCT-ND
DIODE	2	100V 200mA	N/A	1N4148FS-ND
CAPACITOR	1	16V 1000microFarad	10%	ECS-FICE106K
ON/OFF SWITCH S-1	2	.3 A @ 30VOLT	N/A	EG1919-ND OR EG1271A
MOMENTARY PUSH SWITCH S-2	1	12V AND 20mA	N/A	P8057S-ND OR EVQ-PJA05Q
9 VOLT CELL HOLDER	2	PC MOUNT	N/A	BH9V-PC-ND
AUTO PWR PLUG	1	6' 18 AWG w/ 5A FUSE	N/A	ZA5073-ND
DC PWR JACK	1	SMT PWR JACK	1.65mm DIA	CP-021PJTR-ND
ABS PLASTIC ENCLOSURES	2	9V STD	BLACK	SR221-1B-ND
PROTO BOARDS	2	.1" 2.54 mm grid perforated	Copper clad	SR310-ND
RP-SMA CONNECTORS	2	RECEP RIGHT ANGLE	BRASS	CONREVSMA002-ND

Infant Safety Separation Monitor, By Ronald R. Lawson  
PARTS LIST AND VALUE  
FIGURE IV of IV

PART	QTY	VALUE	TOLERANCE	PART NUMBER
PRODUCTION PC BOARDS	2	UNCOATED COPPER CLAD	3"X5"X1/16	473-100-ND
ANTENNA	2	916 MHz RP SMA	¼ WAVE WHIP	ANT-916-CW-RCR-ND
ES SERIE TRANSMITTER CHIP	1	916MHz	2.1-4.0 V 6.5mA	TXM-916-ES-ND
ES SERIES RECEIVER CHIP	1	916 MHz	4.5-5.5 V 5.5mA	RXM-916-ES-ND
LOW BAT DETECTOR	2	PROGRAMMABLE THRESHOLD from 2.5 – 3.25VDC	5.2V MAX	LTC1998CS6-ND
SINGLE INVERTER	1	UHS SERIES	1.8-5.5VDC 32mA	NC7SZ04M5CT-ND
HOLTEK ENCODER	1	HT680 18 PIN	N/R	HT680
HOLTEK DECODER	1	HT694 18 PIN	N/R	HT694
<b>RESISTOR'S</b>	<b>QTY</b>	<b>VALUE</b>	<b>TOLERANCE</b>	<b>PART NUMBER</b>
4k OHM	2	4k OHM	1/2W, 5%	OF392J
600 OHM	2	600 OHM	1/2W, 5%	OF621J
6k OHM	1	6k OHM	1/2W, 5%	OF622J
430 OHM	4	430 OHM	1/2W, 5%	OF431J
500 OHM	4	500 OHM	1/2W, 5%	OF471J
1k OHM	4	1k OHM	1/2W, 5%	OF102J
750 OHM	2	750 OHM	1/2W, 5%	OF751J
390k OHM	1	390k OHM	1/2W, 5%	OF394J
75k OHM	2	75k OHM	1/2W, 5%	OF753J
300 OHM	1	300 OHM	1/2W, 5%	OF301J
18k OHM	1	18k OHM	1/2W, 5%	OF183J
560k OHM	2	560k OHM	1/2W, 5%	OF564J
130k OHM	2	130k OHM	1/2W, 5%	OF124J
370k OHM	2	370k OHM	1/2W, 5%	OF374J
390 OHM	1	390 OHM	1/2W, 5%	OF391J
220 OHM	3	220 OHM	1/2W, 5%	OF221J
750 OHM	2	750 OHM	1/2W, 5%	OF751J
2.2k OHM	2	2.2k OHM	1/2W, 5%	OF222J
10k OHM	2	10k OHM	1/2W, 5%	OF103J
200 OHM	3	200 OHM	1/2W, 5%	OF201J
300k	2	300k OHM	1/2W, 5%	OF304J
200k OHM	1	200k OHM	1/2W, 5%	OF204J